

WHAT IS CLAIMED IS:

1. A syringe barrel for an injection apparatus, the syringe barrel being adapted to be mounted on a cylinder holder that comprises a flange insertion groove, the syringe barrel comprising:

5 a flange adapted to be held by said flange insertion groove so as to fix the syringe barrel;

a reinforcing rib on a rear surface of the flange.

2. A syringe barrel according to claim 1, wherein the rib and the flange together are adapted to be inserted in a flange holding groove.

10 3. A syringe barrel according to claim 1, wherein the rib has a height of about 0.2 to about 3 times the thickness of the flange.

4. A syringe barrel according to claim 1, wherein the rib has a concave portion which is adapted to fit a positioning mechanism installed in the cylinder holder.

15 5. A syringe barrel according to claim 4, wherein the positioning mechanism is a latch pushed by a coil spring.

6. A syringe barrel according to claim 4, wherein the positioning mechanism is a blade spring having a pawl.

20 7. A syringe barrel, comprising a flange and a reinforcing rib containing a concentric reinforcing part and a radial reinforcing part, provided on the rear surface of the flange.

8. A syringe barrel, comprising a double flange.

9. A syringe barrel, comprising a flange and a thick part provided at a base part on a front surface of the flange.

25 10. A syringe barrel, comprising a flange and a reinforcing part in the form of a taper provided on a front surface of the flange.

11. A pre-filled syringe, comprising:

a syringe comprising a syringe barrel of any of Claims 1 to 10; and
a chemical solution filled in the syringe.

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